

**AMENDMENTS TO THE CLAIMS**

1-18. (cancelled)

19. (currently amended) A method for reducing the amount of  $\beta$ -amyloid deposits comprising  $\beta$ -amyloid peptide ( $A\beta$ ) from  $\beta$ -amyloid precursor protein (APP) or a fragment thereof in the central nervous system (CNS) of a mammal comprising administering to said mammal an effective amount [[o]] of BACE2 or an agonist thereof.

20. (original) The method of claim 19 wherein said mammal is human.

21. (new) The method of claim 19 wherein said APP is a native sequence human APP.

22. (new) The method of claim 21 wherein said APP is the 695-amino acid isotype.

23. (new) The method of claim 21 wherein said APP contains the Swedish mutation.

24. (new) The method of claim 19 wherein said APP fragment is  $\beta$ -CTF.

25. (new) The method of claim 19 wherein said BACE2 is a native sequence BACE2 polypeptide.